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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,254	11/26/2003	David J. Yonce	279.628US1	6063
21186 7590 02/16/2007 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938			EXAMINER	
			OROPEZA, FRANCES P	
MINNEAPOLIS, MN 55402		ART UNIT	PAPER NUMBER	
			3766	
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SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 M	TAITHS	02/16/2007	DAD	PED

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)					
	10/723,254	YONCE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Frances P. Oropeza	3766					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2/6/6	07 (RCE) & 12/6/06 (Amendment)	<u>)</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	s action is non-final.						
3) ☐ Since this application is in condition for allowa							
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application	1.		•				
4a) Of the above claim(s) is/are withdra							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-17</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct			١.				
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreigr a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a	)-(d) or (f).					
1. Certified copies of the priority documen	ts have been received.						
2. Certified copies of the priority document	•						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,						
* See the attached detailed Office action for a list	of the certified copies not receive	∍d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Di 5) Notice of Informal F						
Paper No(s)/Mail Date	6) Other:						

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### **DETAILED ACTION**

# Request for Continued Examination

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. The Applicant's submission filed on 2/6/07 has been entered.
- 2. The Applicant amended independent claim 1 in the response filed 12/6/06 hence the rejection of record is withdrawn and a new rejection established in the subsequent paragraphs.

# Claim Rejections - 35 USC § 103

3. Claims 1-7 and 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Levine et al. (US 6748274) in view of Samuelsson et al. (US 7050857).

Levine et al. disclose a method and apparatus for displaying information comprising an implantable device (100) the implantable device comprising a first sensing channel (82 or 84) and a controller (60). The method and apparatus further comprise an external programmer (102) including a display (video display (214) and printer (236)) to show graphical data (waveform and histogram). The electrocardiogram data is compiled with respect to time and with respect to heart rate. Events are time stamped/ marked (figures 2, 3, 5, 8-11B; col. 5 @ 33-45; col. 7 @ 7-16; col. 9 @ 1-12; col. 10 @ 60-62; col. 12 @ 53-54; col. 13 @ 59-61; col. 14 @ 16-18, 31-34; col. 15 @ 5-12; col. 16 @ 17-19).

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As to claims 2 and 13, the representative electrocardiogram (IECG) is an average of a plurality of IECGs and is a function of time/ heart rate (col. 14 @ 31-34; col. 15 @ 5-13; col. 15 @ 67 - col. 16 @ 3).

As to claims 3 and 12, the representative electrocardiogram (IECG) is a single IECG and is a function of time/ heart rate (col. 12 @ 42-47; col. 14 @ 31-34; col. 15 @ 5-13).

As to claims 4 and 14, the representative electrocardiogram (IECG) is an intrinsic IECG and are a function of time/ heart rate (col. 13 @ 55-57; col. 14 @ 31-34; col. 15 @ 5-13).

As to claims 5 and 15, the representative electrocardiograms are evoked responses from the evoked response window, collected as paces, and are functions of time/ heart rate (col. 4 @ 3-6; col. 7 @ 42; col. 15 @ 5-13; col. 15 @ - col. 16 @ 3).

As to claims 6 and 9, the representative electrocardiograms may be continuous relative to time and period, and are derived as a function of time/ heart rate (col. 15 @ 5-13; col. 15 @ 67 - col. 16 @ 3).

As to claims 7 and 16, the display screen 9214) or the printer (236) display the representative electrocardiogram (fig. 5).

As to claim 10, the controller maintains representative electrocardiograms being discarded (col. 14 @ 63-67).

As discussed in the eight previous paragraphs of this action, Levine et al. disclose the claimed invention except for the representative electrograms being overlain upon one another.

Samuelsson et al. teach programmer display using representative electrograms being overlain upon one another for the purpose of enabling comparison of different waveforms. It

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would have been obvious to one having ordinary skill in the art at the time of the invention to have electrograms being overlain upon one another in the Levine et al. system in order to enable data comparison so the pacer data can be used to diagnose the condition of the patient, and based on the diagnosis, the pacer adapted to treat the condition of the patient (abstract; col. 1 @ 21-27; col. 7 @ 46-55).

4. Claims 8 and 17 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Levine et al. (US 6748274) and Samuelsson et al. (US 7050857) in view of Palmer et al. (US 5830150). As discussed in paragraph 3 of this action, modified Levine et al. disclose the claimed invention except for the graphic display having the magnitude of the electrocardiogram displayed in shading or color.

Palmer et al. teach data display using a graphic display having the magnitude of the electrocardiogram displayed in shading or color for the purpose of highlighting changes in the condition of the patient. It would have been obvious to one having ordinary skill in the art at the time of the invention to have the magnitude of the electrocardiogram displayed in shading or color in the modified Levine et al. system in order for the caregivers to become more easily aware of striking events and more subtle events, the caregiver's eyes being drawn by the colors to the variable at the time of its change so appropriate care can be provided for the patient's changing condition (col. 1 @ 53-55; col. 3 @ 6-18; col. 4 @ 1-26; col. 5 @ 1-23).

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### Statutory Basis

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fran Oropeza whose telephone number is (571) 272-4953. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert E. Pezzuto can be reached on (571) 272-6996. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communication and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frances P. Oropeza Patent Examiner Art Unit 3766 2.13-0

Robert E. Pezzuto
Supervisory Patent Examiner
Art Unit 3766